

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/032775

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K9/58 A61K31/4439 A61P1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|-----------------------------------------------------------------------------------------------------------------|-----------------------|
| X | US 4 786 505 A (LOVGREN ET AL) 22 November 1988 (1988-11-22) page 8 - page 16; example 5 | 1-57 |
| X | US 5 232 706 A (PALOMO COLL ET AL) 3 August 1993 (1993-08-03) example 1 | 1-57 |
| X | US 5 997 903 A (DIETRICH ET AL) 7 December 1999 (1999-12-07) example 1 | 1-57 |
| X | WO 96/24375 A (ASTRA AKTIEBOLAG; DEPUI, HELENE; ROSINSKI, ADAM) 15 August 1996 (1996-08-15) tables 1,2 | 1-57 |
| | ----- -/- | |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

10 June 2005

Date of mailing of the international search report

29/06/2005

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PCT/US2004/032775

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---------------------------------------------------------------------------------------------------|-----------------------|
| X | EP 1 174 136 A (ASTRAZENECA AB) 23 January 2002 (2002-01-23) claims 1-7; example 1 ----- | 1-57 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/032775

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|-------------------------------------------|---|---------------------|----------------------------|---------------------|
| US 4786505 | A | 22-11-1988 | GB 2189698 A | 04-11-1987 |
| | | | SG 154294 G | 17-03-1995 |
| | | | AR 240250 A1 | 30-03-1990 |
| | | | AT 84215 T | 15-01-1993 |
| | | | AT 140387 T | 15-08-1996 |
| | | | AT 184482 T | 15-10-1999 |
| | | | AU 601974 B2 | 27-09-1990 |
| | | | AU 7191287 A | 05-11-1987 |
| | | | CA 1292693 C | 03-12-1991 |
| | | | CN 87103284 A ,C | 11-11-1987 |
| | | | CY 1810 A | 20-10-1995 |
| | | | DD 273197 A5 | 08-11-1989 |
| | | | DE 3751860 D1 | 22-08-1996 |
| | | | DE 3751860 T2 | 21-11-1996 |
| | | | DE 3783394 D1 | 18-02-1993 |
| | | | DE 3783394 T2 | 06-05-1993 |
| | | | DE 247983 T1 | 27-09-1990 |
| | | | DK 215887 A | 31-10-1987 |
| | | | EP 0247983 A2 | 02-12-1987 |
| | | | EP 0496437 A2 | 29-07-1992 |
| | | | EP 0567201 A2 | 27-10-1993 |
| | | | ES 2006457 T3 | 01-01-1994 |
| | | | ES 2091971 T3 | 16-11-1996 |
| | | | ES 2135443 T3 | 01-11-1999 |
| | | | FI 871913 A ,B, | 31-10-1987 |
| | | | GR 89300058 T1 | 22-06-1989 |
| | | | GR 3007434 T3 | 30-07-1993 |
| | | | GR 3020734 T3 | 30-11-1996 |
| | | | GR 3032101 T3 | 31-03-2000 |
| | | | HK 52897 A | 02-05-1997 |
| | | | HK 135294 A | 09-12-1994 |
| | | | HR 920854 A1 | 31-10-1994 |
| | | | HU 43954 A2 | 28-01-1988 |
| | | | IE 61416 B1 | 02-11-1994 |
| | | | JP 1863556 C | 08-08-1994 |
| | | | JP 62258320 A | 10-11-1987 |
| | | | JP 5069807 B | 01-10-1993 |
| | | | JP 2740993 B2 | 15-04-1998 |
| | | | JP 5294831 A | 09-11-1993 |
| | | | KR 9104579 B1 | 06-07-1991 |
| | | | LT 1683 A ,B | 25-07-1995 |
| | | | LV 10357 A ,B | 20-02-1995 |
| | | | LV 5760 A4 | 20-12-1996 |
| | | | NO 871790 A ,B, | 02-11-1987 |
| | | | NZ 220096 A | 26-04-1990 |
| | | | PH 25701 A | 18-09-1991 |
| | | | PL 265416 A1 | 21-07-1988 |
| | | | PT 84785 A ,B | 01-05-1987 |
| | | | SI 8710681 A8 | 31-10-1996 |
| | | | SU 1820837 A3 | 07-06-1993 |
| US 5232706 | A | 03-08-1993 | ES 2024993 A6 | 01-03-1992 |
| | | | ES 2032269 A6 | 16-01-1993 |
| US 5997903 | A | 07-12-1999 | AT 144416 T | 15-11-1996 |
| | | | AU 683411 B2 | 13-11-1997 |
| | | | AU 1974692 A | 12-01-1993 |
| | | | BG 61796 B1 | 30-06-1998 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/032775

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|-------------------------------------------|---|---------------------|----------------------------|---------------------|
| US 5997903 | A | | BG 98286 A | 15-08-1994 |
| | | | CA 2109697 A1 | 23-12-1992 |
| | | | CN 1067809 A ,C | 13-01-1993 |
| | | | CZ 9302764 A3 | 13-07-1994 |
| | | | DE 4219390 A1 | 24-12-1992 |
| | | | DE 59207438 D1 | 28-11-1996 |
| | | | DK 589981 T3 | 17-03-1997 |
| | | | WO 9222284 A1 | 23-12-1992 |
| | | | EP 0519365 A1 | 23-12-1992 |
| | | | EP 0589981 A1 | 06-04-1994 |
| | | | ES 2096080 T3 | 01-03-1997 |
| | | | FI 935677 A | 16-12-1993 |
| | | | GR 3022154 T3 | 31-03-1997 |
| | | | HK 1005851 A1 | 29-01-1999 |
| | | | HR 920162 A1 | 31-08-1996 |
| | | | IE 921733 A1 | 18-11-1992 |
| | | | IL 102096 A | 18-06-1996 |
| | | | JP 3338052 B2 | 28-10-2002 |
| | | | JP 6508118 T | 14-09-1994 |
| | | | KR 254021 B1 | 01-05-2000 |
| | | | LV 11982 A ,B | 20-03-1998 |
| | | | MX 9202961 A1 | 01-02-1993 |
| | | | NO 934648 A | 16-12-1993 |
| | | | NZ 243147 A | 21-12-1995 |
| | | | PL 169951 B1 | 30-09-1996 |
| | | | RO 117502 B1 | 30-04-2002 |
| | | | RU 2089180 C1 | 10-09-1997 |
| | | | SI 9200111 A | 31-12-1992 |
| | | | SK 128793 A3 | 08-06-1994 |
| | | | ZA 9204386 A | 24-02-1993 |
| | | | ZW 9392 A1 | 17-02-1993 |
| | | | HU 68978 A2 | 28-08-1995 |
| WO 9624375 | A | 15-08-1996 | AT 219377 T | 15-07-2002 |
| | | | AU 689372 B2 | 26-03-1998 |
| | | | AU 4682296 A | 27-08-1996 |
| | | | BR 9605111 A | 07-10-1997 |
| | | | CA 2186039 A1 | 15-08-1996 |
| | | | CN 1148344 A ,C | 23-04-1997 |
| | | | CZ 9602931 A3 | 12-11-1997 |
| | | | DE 69621885 D1 | 25-07-2002 |
| | | | DE 69621885 T2 | 02-01-2003 |
| | | | DK 754061 T3 | 26-08-2002 |
| | | | EE 9600118 A | 15-04-1997 |
| | | | EP 0754061 A1 | 22-01-1997 |
| | | | ES 2176436 T3 | 01-12-2002 |
| | | | FI 963984 A | 04-10-1996 |
| | | | HR 960032 A1 | 31-10-1997 |
| | | | HU 9603064 A2 | 28-08-1997 |
| | | | IL 117041 A | 16-07-2000 |
| | | | JP 9511767 T | 25-11-1997 |
| | | | MA 23801 A1 | 01-10-1996 |
| | | | NO 964212 A | 04-10-1996 |
| | | | NZ 301408 A | 28-07-1998 |
| | | | PL 316684 A1 | 03-02-1997 |
| | | | PT 754061 T | 29-11-2002 |
| | | | WO 9624375 A1 | 15-08-1996 |
| | | | SK 126096 A3 | 07-05-1997 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/032775

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|-------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WO 9624375 | A | TR 970235 T1 TW 474825 B US 6136344 A ZA 9600365 A | 21-03-1997 01-02-2002 24-10-2000 06-08-1996 |
| EP 1174136 | A 23-01-2002 | EP 1174136 A2 SI 752851 T1 AT 218327 T AU 695774 B2 AU 4683996 A BR 9605121 A CA 2186037 A1 CN 1146720 A ,C CZ 9602918 A3 DE 69621523 D1 DE 69621523 T2 DK 752851 T3 EE 9600148 A EP 0752851 A1 ES 2179175 T3 FI 964028 A HK 1008302 A1 HU 9603112 A2 JP 9511768 T NO 964271 A NZ 301424 A PL 316685 A1 PT 752851 T RU 2170090 C2 WO 9624338 A1 SK 126196 A3 TR 9600785 T1 US 2002086029 A1 US 2003113375 A1 US 2002012676 A1 US 6013281 A US 2004234594 A1 ZA 9601078 A | 23-01-2002 31-12-2002 15-06-2002 20-08-1998 27-08-1996 14-10-1997 15-08-1996 02-04-1997 16-07-1997 11-07-2002 30-01-2003 16-09-2002 15-04-1997 15-01-1997 16-01-2003 08-10-1996 13-09-2002 28-08-1997 25-11-1997 08-10-1996 28-07-1998 03-02-1997 29-11-2002 10-07-2001 15-08-1996 08-10-1997 21-08-1997 04-07-2002 19-06-2003 31-01-2002 11-01-2000 25-11-2004 11-08-1997 |